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reactivity measurements in a high isoprene and low NO environment during the Southern **Oxidants and Aerosol Study (SOAS)** ¹Dianne Sanchez, ¹Daun Jeong, ¹Roger Seco, ¹Ian Wrangham, ²Jeong-Hoo Park, ³William H. Brune, ⁴Abigail Koss, ⁴Jessica Gilman, ⁴Joost de Gouw, ⁵Pawel Misztal, ⁵Allen Goldstein, ⁶Karsten Baumann, ⁷Paul O. Wennberg, ⁸Frank N. Keutsch, ¹Alex Guenther, and ^{1*}Saewung Kim 1. Department of Earth System Science, University of California, Irvine, Irvine, **CA USA** 2. National Institute for Environmental Research, Incheon, South Korea 3. Department of Meteorology and Atmospheric Science, Pennsylvania State University, University Park, PA USA 4. Chemical Science Division, NOAA Earth System Research Laboratory, **Boulder, CO USA** 5. Department of Environmental Science, Policy and Management, University of California, Berkeley, Berkeley, CA USA 6. Atmospheric Research and Analysis, Inc, Durham, NC USA 7. Divisions of Engineering and Applied Science and Geological and Planetary Sciences, California Institute of Technology, Pasadena, CA USA 8. Paulson School of Engineering and Applied Sciences and Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA USA *Corresponding Author: Saewung Kim, saewungk@uci.edu, 1-949-824-4531 To be submitted to Atmospheric Environment – Technical Note

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